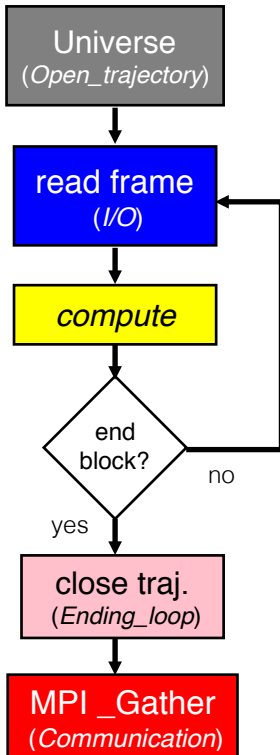


**(a)** $t_{\text{opening\_trajectory}}$  $t_{\text{I/O}}$  $t_{\text{comp}}$  $t_{\text{end\_loop}}$  $t_{\text{comm}}$ **(b)**

read I/O

network traffic